Data Sheet (Cat.No.T209275)

TargetMol

CB2 receptor agonist 6

Chemical Properties

CAS No. :

Formula: C24H19FN2O

Molecular Weight:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	CB2receptor agonist 6 (compound 70) is a CB2R agonist with an EC50 of 162 nM. It has IC50 values of 4.83 μM for CB1R and 0.88 μM for CB2R. As a neuroprotective agent, CB2receptor agonist 6 is useful for research in neurological disorders.
Targets(IC50)	Cannabinoid Receptor
In vitro	CB2 receptor agonist 6 (compound 70) demonstrates favorable metabolic stability in vitro at a concentration of 5 μM over time intervals of 0, 15, 30, and 60 minutes. Additionally, this compound exhibits CB2R activation activity in vitro, inhibiting cAMP expression in humans and mice at a concentration of 5 μM for 0, 0.5, 1, 1.5, and 2 hours. In competitive binding assays conducted in vitro, CB2 receptor agonist 6, at concentrations ranging from 0.01 to 10 μM over 90 minutes, reveals selectivity for CB2R with K i values of 8.8 nM for CB1R and 0.89 nM for CB2R.
In vivo	Compound 6 (compound 70) acts as a CB2 receptor agonist and, when administered via intraperitoneal injection at doses of 1, 5, or 10 mg/kg across specified time intervals (0.25, 0.5, 1, 2, 6, 24 hours), significantly reverses memory impairment in a scopolamine-induced mouse amnesia model without affecting spatial learning and memory abilities in normal mice.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481